

A. BERLESE

# ACARI, MYRIOPODA ET SCORPIONES

HUCUSQUE IN ITALIA REPERTA

ACARI, MIRIAPODI E SCORPIONI

**ITALIANI**

OPERA SUSSIDIATA DAL R. MINISTERO DELLA PUBBLICA ISTRUZIONE  
DIETRO IL PARERE DEL CONSIGLIO SUPERIORE  
E DISTINTA CON MEDAGLIA DI BRONZO ALL'ESPOSIZIONE ITALIANA  
DI TORINO 1884.

FASCICOLO LXVII.

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1870

# REPORT OF THE COMMISSIONER OF THE GENERAL LAND OFFICE

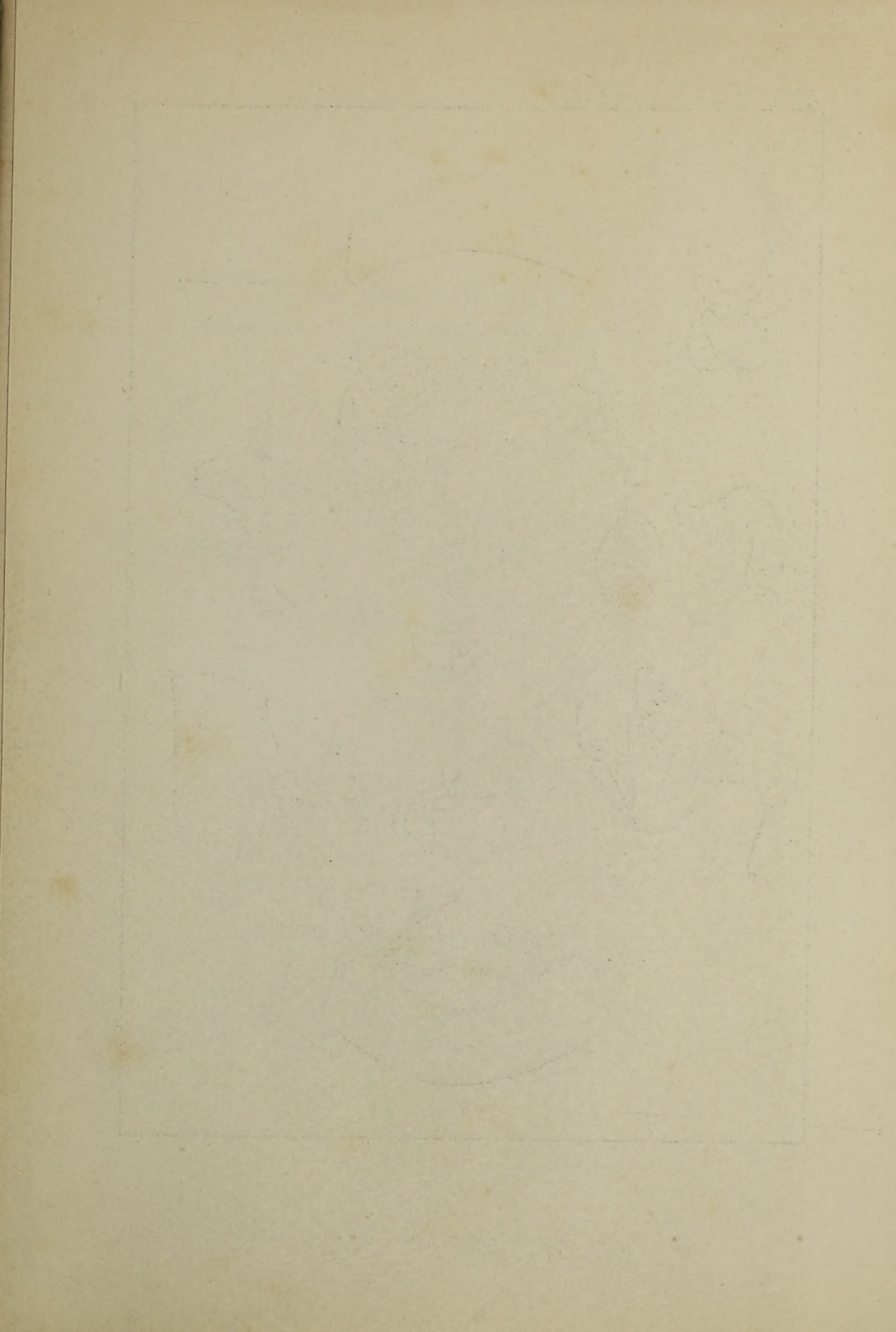
FOR THE YEAR 1870

IN RESPONSE TO A RESOLUTION OF THE HOUSE OF REPRESENTATIVES

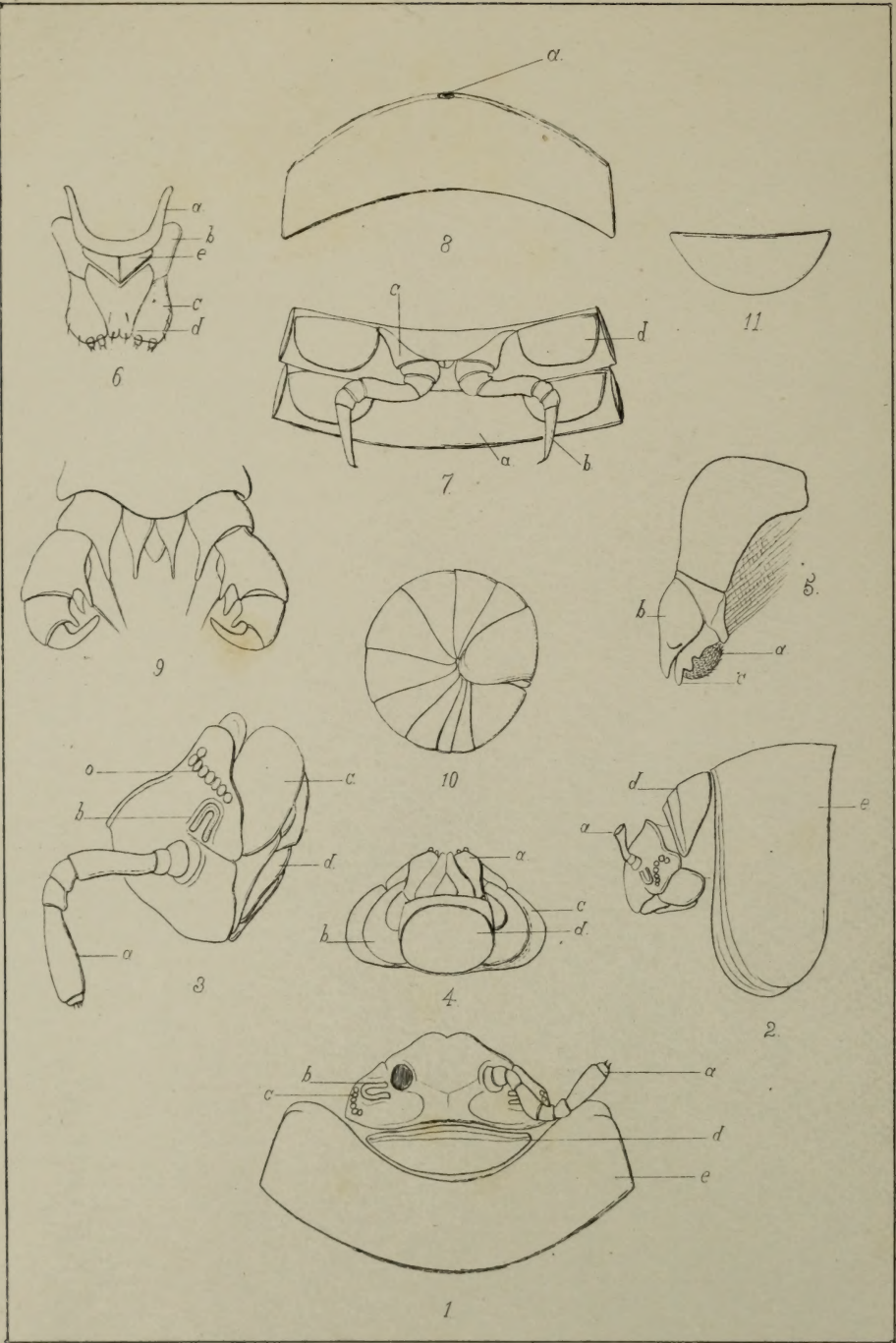
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THE COMMISSIONER OF THE GENERAL LAND OFFICE  
HAS THE HONOR TO ACKNOWLEDGE THE RECEIPT OF  
THE REPORT OF THE COMMISSIONER OF THE GENERAL LAND OFFICE  
FOR THE YEAR 1870







*Karl*

GENUS GLOMERIS LATREILLE 1802.

(quia animalia huius generis in sphærolam contrahuntur)

*Oniscus*, (ex p.) Panzer, Poda, Rossius, Scopoli,  
Villers aliique veteres auct.

*Armadillo*, (ex p.) Cuvier, aliique auct.

*Iulus*, (ex p.) Olivier. Encycl. Method. Ins. VII.

*Glomeris* (ex p.) Latreille, Hist. nat. d. Crust. III. p. 44;  
VII, p. 63; *idem*, Genera Crust. etc. I. p. 73.

» Leach, Edinb. Encycl. VII. 1, Ed. (Articul.  
Crustaceology). *idem*, Zool. Miscell.  
III, p. 32.

» Brandt, Bull. d. l. Soc. d. Natur. de Moscou,  
VI, p. 195.

» et *Lamisca*, Gray et Iones, Cyclop. of Anat.  
and Phys. III, p. 546.

» C. Koch, Syst. d. Myr. p. 35, *idem*, C. M. A.  
Deutschl.

» Gervais, Hist. nat. Apt. VI, p. 67.

» Meinert, Naturh. Tidsskr. 3, R. V. p. 29.

» Rosichy, Fanzago, Fedrizzi, Cantoni  
loc. cit. etc.

» Latzel, Myr. österr. Mon. II, p. 90, tab. VI,  
fig. 43-49, et Tab. V, fig. 50.

Corpus supra perconvexum, subtus excavatum, to-  
tum supra glabrum, nitidissimum, læve. Caput (1) la-  
tum, foveis lateralibus (b) hippocrepeis, magnis. Oculi



(c) utrinque ocellis uniseriatis constituti. Antennæ (a) breves, angulatim plicatæ, articulo pænultimo magno, compresso. Labrum sinuatum et unidentatum. Mandibulæ (5), pectinibus (a) novem armatæ. Hypostoma (6) galeis (d) cum intergaleari concretis, frustulum unicum triangulare sistentibus, maxillas (c) omnino seiungentibus. Infrabasilaria (e) inter sese coniuncta, frustulum trigonum sistentia. Basilare (a) valde arcuatim, in cornubus productum. Galæ dentibus destitutæ, maxillæ bidentes. Segmenta corporis et scutula dorsualia duodecim. Scutum primum dorsuale (1 d, 2 d) minimum, subsemicirculare, transverse (bi) striatum; secundum (1. 2, e) magnum, lateribus profunde incis, plerumque antè striatum. Scuta pleuralia (7, d) ovalia, subconca. In maribus pedes 17, 18. præcedentibus multo minores; pedes postremi paris, sive 19<sup>i</sup> magni, incrassati (9) et forcipati in organum copulativum commutati, in omnibus speciebus, eadem fere fabrica.

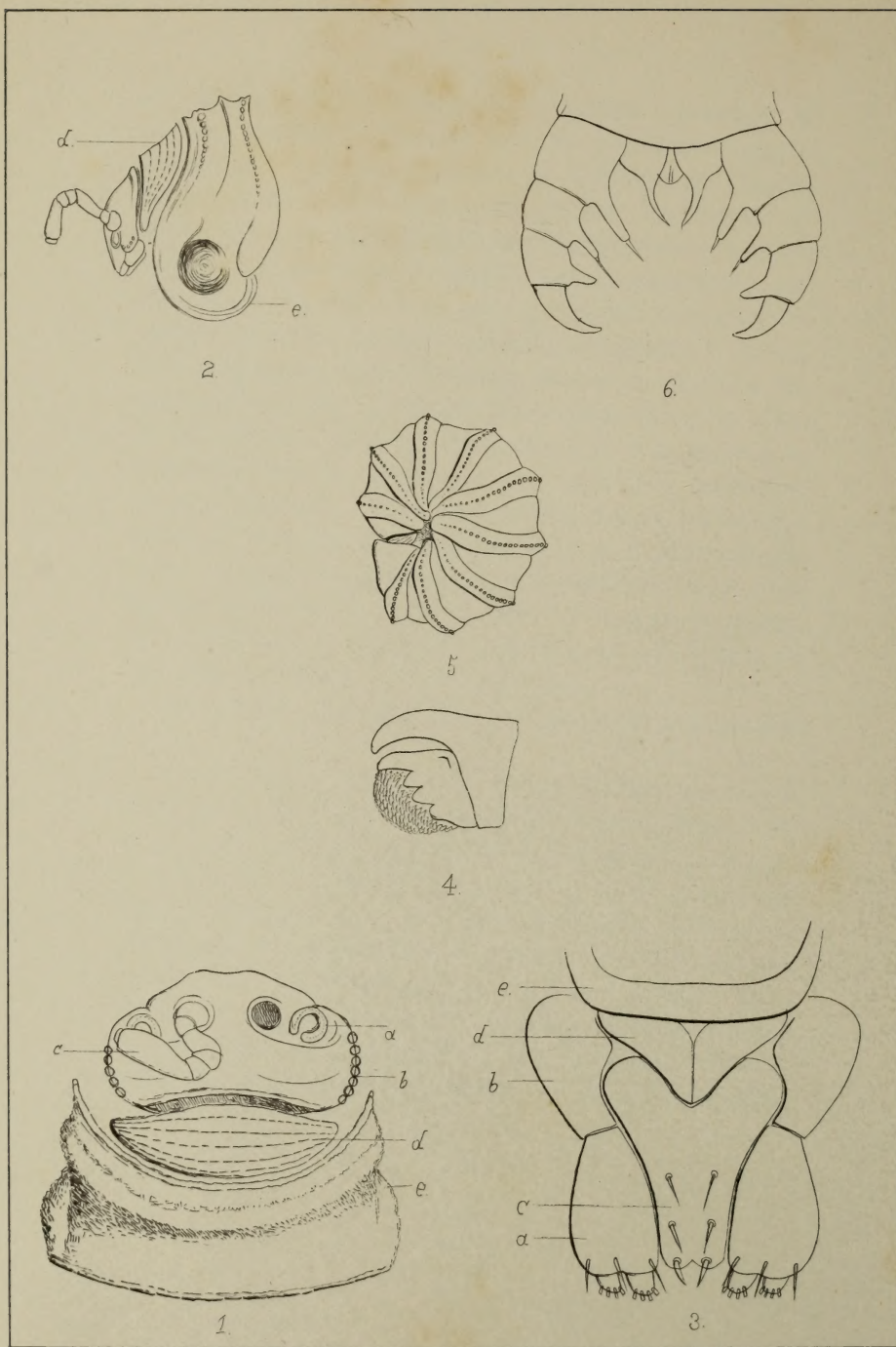
Sub petris obvii, si tacti, in glomerulum sese contractantes.

*Expl. tab. 1* caput cum duobus primis segmentis, pronum. *2. idem (Gl. multistriata)* e latere visum, (litteris ut in 1) *3.* caput e latere visum. *a* antenna, *b* fovea, *c* mandibula, *d* hypostoma, *o* ocelli. - *4.* caput inferne visum. *a* hypostoma, *b* mandibula, *c* clypeus, *d* foramen occipitale. - *5.* mandibula *b, c*, dentes. - *7.* segmenta duo inferne visa *a* scutum dorsuale, *b* pes, *c* scutum pediferum, *d* scutum pleurale. - *8.* scutum dorsuale, *a* porus repugnatorius. - *9.* organum copul. *Gl. auritæ.* - *10.* animalculum in glomerulum contractum. - *11.* scutum anale.

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Forbes

2.



GENUS GERVAISIA WAGA 1857.

(Cl. P. Gervais genus dicatum).

*Gervaisia*, Waga, Ann. d. l. Soc. Entom. de France,  
3, sér. V, p. 829.

*Trachysphæra* Heller, Sitzungsber. d. K. Akad. d.  
Wiss. Wien, math. - natw. Cl. XXVI p. 315.

Corpus supra perconvexum, subtus excavatum, totum (supra) asperum, nec non costulis elevatis ad marginem posticum scutorum dorsalium auctum.

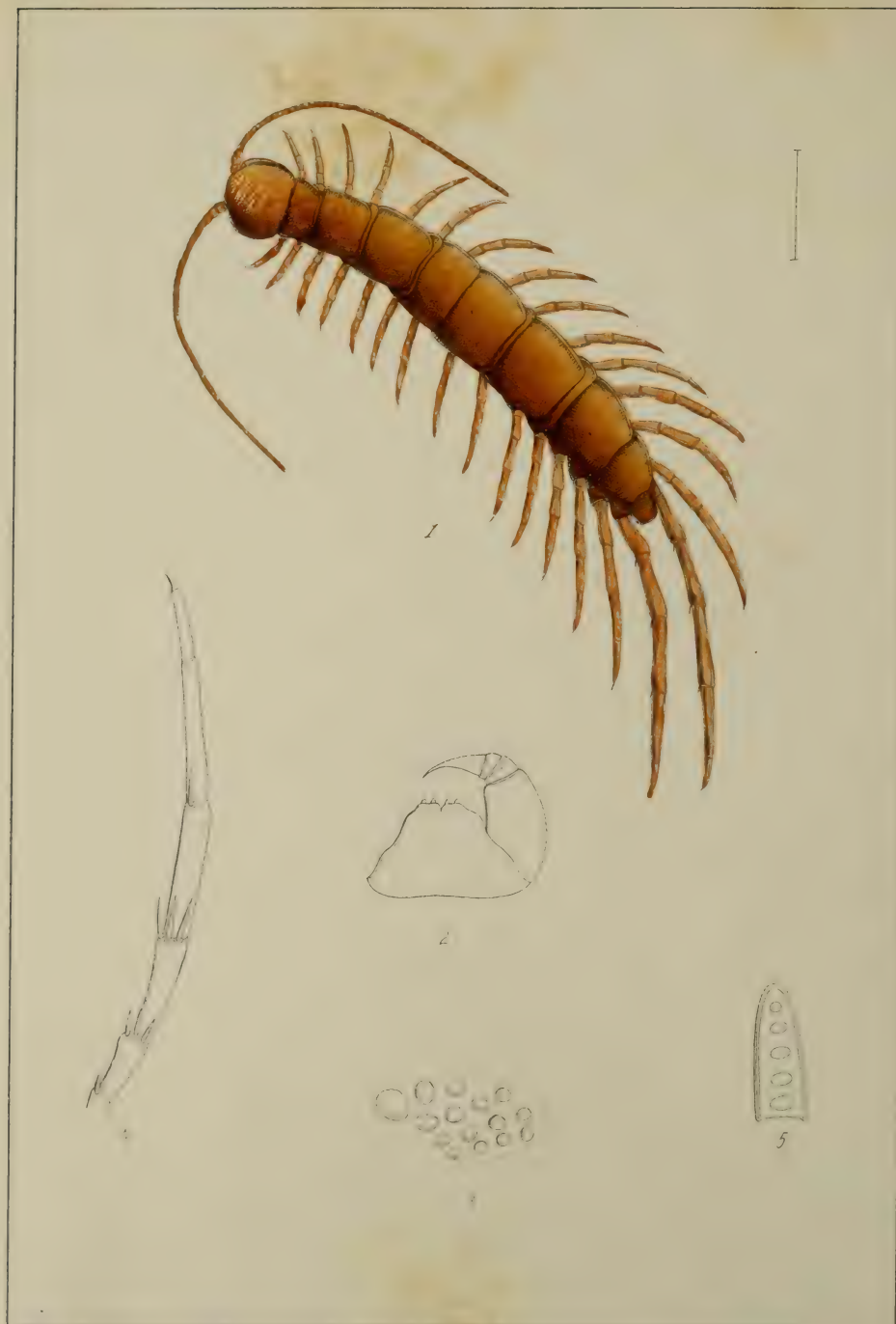
Caput (1) latum, foveis lateralibus (a) magnis, subovalibus vel hippocrepeis. Oculi (b) ocellis uniseriatis in margine capitis laterali conspicui. Antennæ breves, geniculatim plicatæ (c). Mandibulæ pectinibus quinis vel senis. Hypostoma (3) galeis cum intergaleari concretis, frustulum unicum triangulare (c) sistentibus, maxillas (a) omnino seiurgentibus. Infrabasilaria (d) inter sese coniuncta, frustulum trigonum sistentia. Basilare (e) valde arcuatim in cornubus productum. Galeæ dentibus destitutæ, maxillæ bidentes. Segmenta corporis duodecim, scutulis numero undecim. Scutum primum minimum,

transverse striatum, (fig. 1-d); secundum maius (*e* et fig. 2.) lateribus profunde fovea impressis. Mares pedibus 17 et 18 præcedentibus valde minoribus, pedes postremi (19 paris) quinquearticulati, forcipati, in organum copulativum commutati, pedibus iisdem *Glomeris* similibus.

Animalcula minora; sub petris in udis haud rara.







*Karlberg* DIS. 1854



**Lithobius lucifugus L. Koch \*).**

L. Koch, Die Myr-Gatt. Lithob. p. 82; *idem ibidem*, p. 66 (*L. alpinus*).

Fedrizzì, Lit. it. (Atti Soc. Ven. Trent. V), p. 228; *idem, ibidem* (?) p. 227, (*L. communis*).

Latzel, Die Myr. öst. Mon. I. p. 121.

Non Syn. Heer, Grenz. d. thier, Leb. in d. Schweiz. alp. Zürich. p. 15, fig. 6, (*L. alpinus*).

*L. Castaneus*; *antennis dimidio corpore brevioribus*; *ocellis utrinque 13-23*; *coxis pedum maxill. dentibus 4*; *poris coxalibus rotundis vel ovalibus*; *genitalium femineorum ungue trilobo. Ad 12-17 mill. long.*

Habitat. *Quos vidi mares, collecti sunt a Fedrizzio in agro Tridentino.*

Obs. Marem tantum vidi, a Fedrizzio collectum. Quod hic de fœmina, ex Latzelio transcribo.

Corpus robustulum. Color castaneus saepe fusco-fasciatus, capite subaurantiaco. Antennæ dimidio corpore breviores, 39-50, articulatae. Ocelli (3) utrinque 13-23, in series 4-6 dispositi. Coxæ pedum maxillarium (2) dentibus 4, (tunc plurimis) armatae. Pori coxales, (5 po-

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\*) Archilitobius.

stremi paris) rotundi vel ovaes 4, 5, 5, 4 - vel 5, 6, 7, 5.  
Pedes anales (4) graciles, ungue unico terminati, inferne  
calcaribus 0, 1, 3, 3, 1, armati, haud sulcati. Genita-  
lium femineorum unguis trilobus. Calcarium duo (vel  
tria) paria.

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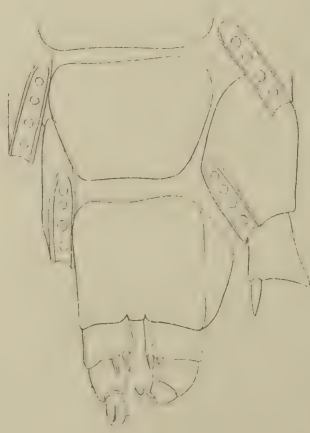




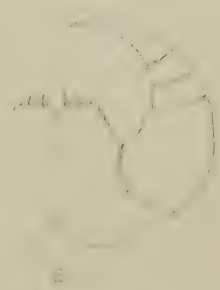
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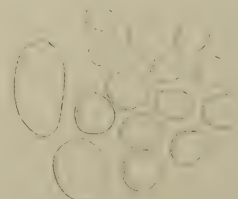
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3



4



5

Anthobius dentatus K.

4

ANTHOBIVS DENTATUS K



**Lithobius dentatus C. Koch. \*)**

C. Koch, Syst. d. Myr. p. 148. *id.* Die Myr. I, Bd. p. 117, f. 106, - *idem ibid.* (?) p. 130, f. 120 - (*Lithobius melanocephalus*).

L. Koch, Die Myr. Gatt. Lithobius, p. 54.

Fedrizzi, Lit. it. (Atti Soc. Ven. Trent. vol. V, p. 219), *idem*, Myr. Trent. Chilop. p. 38.

Latzel, Die Myr. öst. Mon. I, pag. 81.

*L. brunneus; antennis dimidio corpore longioribus; ocellis utrinque 14-23; pedum maxill. dentibus 4; poris coxalibus rotundis; genital. femin. ungue trilobo. Ad 11-18 mill. long.*

Habitat. *Quæ vidi exempla, a Fedrizzio collecta sunt in agro Tridentino.*

Obs. Color corporis brunneus, fusco-fasciatus, capite obscuriore. Antennæ dimidium corpus longitudine superantes, articulis 47-62. Ocelli (3) utrinque 14-23, in series 4-6 dispositi. Coxæ pedum maxillarium (2), dentibus 4 (sive 2-2) armatæ. Pori coxales rotundi, (videas

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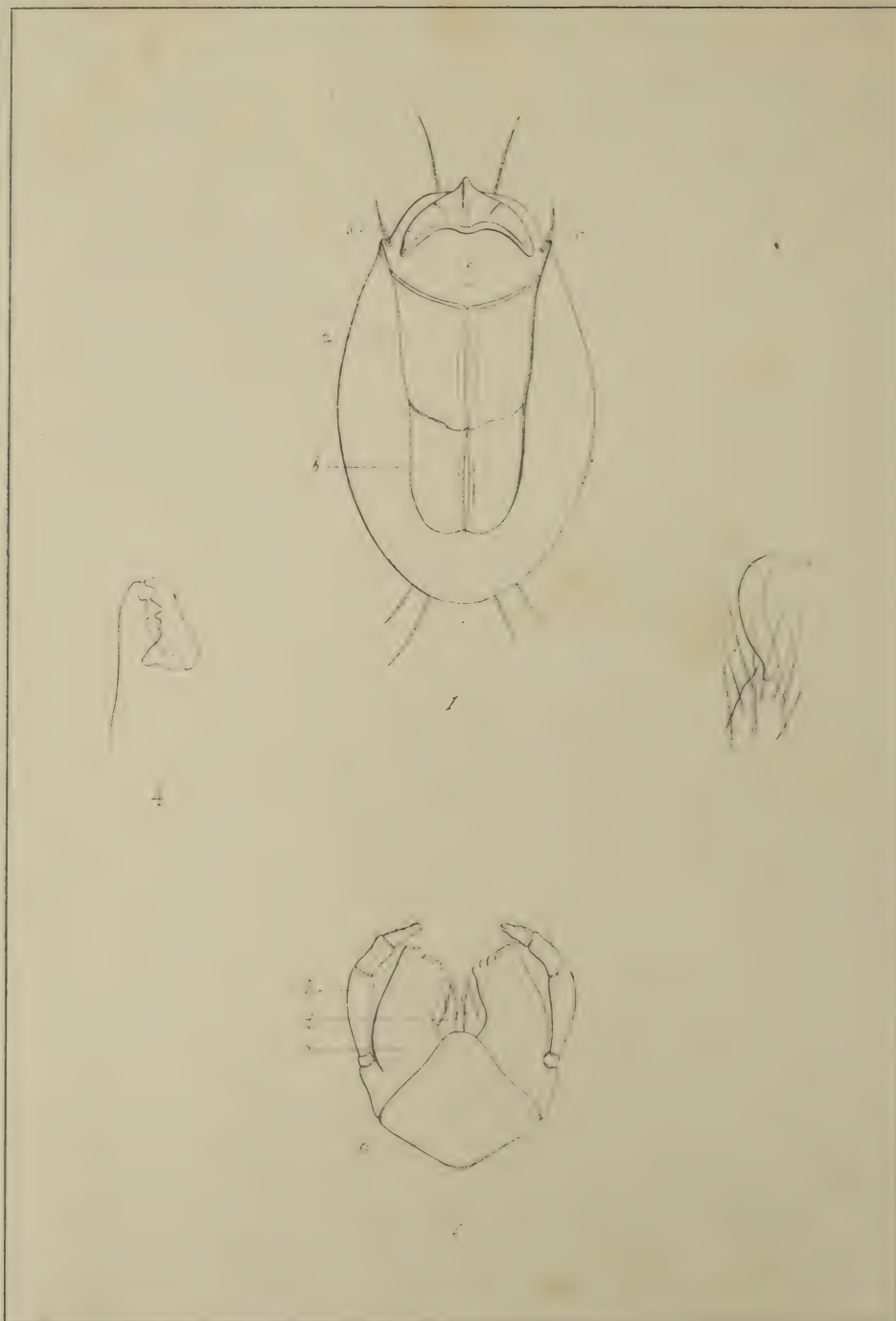
\*) Lithobius.

fig. 4\, 4. 5, 5, 4 vel 6, 6, 6, 5. Pedes anales (5) unguibus duobus terminati, calcaribus 0, 1, 3, 3. 1 vel 0, 1, 3, 3, 2 armati. Secundum Latzel, maris articulus 5 pedum analium supra profunde sulcatus. Genitalium femineorum (4) unguis trilobus. Calcarium duo paria.

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Adami DIS INC

GENUS HOPLOPHORA KOCH 1842.

(ὄπλον = *scutum*; φέρω = *fero*)

*Oribates* (ex p.) Dugès, Ann. Sc. nat. II Ser. tom. II.  
(p. 47).

*Hoplophora* (ex p.) C. L. Koch, Uibersicht des arachnidensystems fasc. III, p. 116.

- » Claparède, Studien an acariden p. 507.
- » Nicolet, Hist. nat. Acar. env. Paris,  
p. 470.
- » G. Canestrini e Fanzago, Acar. it.  
pag. 9.
- » (ex. p.) Michael, British Oribatidæ, p. 543.
- » G. Canestrini Acarof. it. p. 9.

Anticum mobile, cum abdomine articulatum. Genitalia (et anus) scutulis quatuor protecta, simmetrice dispositis ita ut rimae (genitalis et analis) cum sulco, scuta genitalia (fig. 1-a) ab analibus (b, seiungenti, cruciatim vicissim incidantur. Mandibulæ (4) chelatae Maxillarum mala interna (2, d) uniarticulata piligera. Palpi quadriarticulati (b); labrum (a, rhombeum, anterius et posterius angulatum. Pedes ungue singulo maiori (3) terminati.

In muscis obviæ, si tactæ mox scutum Cephalothoracicum super abdominis anticum foramen occludentibus,

\*

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pedibus antea retractis, et in glomerulum inde se contrahentibus. Ceterum pigerrime, lentissime deambulant.

*Expl. tab. 1. H. magna supina (c) seta stigmatica; d. anticum (scutum cephalothoracicum) partim super abdominis foramen occlusum, e foramen abdominis, ex quo pedes producuntur.*

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*Berley* DIS. INC DIP

**Iphis Halleri (G. et R. Can.) Berl.**

G. et R. Canestrini, Nuove sp. del genere *Gamasus*, p. 1077. (*Gamasus Halleri*); *idem* *Gamasi ital.* p. 57 (*Laelaps Halleri*).

G. Canestrini, *Acarof. it.* p. 93.

*I. aurantiacus*, ovatus; pilis curtissimis, vix conspicuis in margine auctus; maris appendicula mandibulari subtrigona. Ad 550  $\mu$ . long. (foem.) 450  $\mu$ . (mas.).

Habitat in agro Veneto in foliis tuberisque (*Solan*) putrescentibus.

Obs. Corpus ovatum, posterius latiusculum, arcuatim truncatum, angulis postico-lateralibus subprominulis. Margo corporis pellucidus subnullus. In marginibus postico et lateralibus corporis, pili minutissimi conspiciuntur. Peritrema usque in medio rostri productum. Scutum foeminæ epigynicum parvulum, posterius rotundatum, vix ultra quarti paris coxas productum. Foeminæ mandibula, (6), chelæ digito mobili quadridenticulato, dente uno medio, ceteris maiori, digito fixo, quadridenticulato.

Mas, (3) foemina minor et magis ovalis, postico margine abdominis subserulato. Chelæ, (5) digitus fixus tri-

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denticulatus, mobilis unidentatus, ad apicem appendicula  
subsecuriformi, subtrigona, minori auctus.

*Expl. tab. 2* foemina supita.

Ex exemplis typicis ab ipso cl. Canestrinio collectis  
et mecum benigne communicatis.

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Barlow DIS. INC. 188

7

*DALMAN NEMATICUS ADEL N. SP.*



**Laelaps (Iphis) semiscissus Berl. n. sp.**

*L. terreus*, scuto dorsuali ad pedes tertii paris utrinque profunde incisus, corpore toto pilis curtissimis obsito. Ad 400  $\mu$ . long.

Habitat. Plura collegi exempla in putrescentibus Florentiæ.

Obs. Differt a *Laelapte Kramerii* Can. (*L. campestris* Berl. fasc. XL, N. 7) pilis corporis curtissimis.

Corpus ovatum, postice rotundatum. Scutum dorsuale postice rotundatum. Dorsum totum pilis curtissimis etiam ad marginem posticum obsitum. Pedes pilis curtioribus et raris vestiti, spinis ad tarsos omnino destituti. Epistoma videre nequivi. Mandibulæ chela (3) minuta, hyalina; digito fixo in medio tridenticulato, mobili tridentato. Scutum genitale minimum, subovatum, anterius a sterno valde discretum, posterius a scutulo anali longe separatum. Scutum anale mediocre, rotundatum, subcirculare, latius quam longum, tripilum.

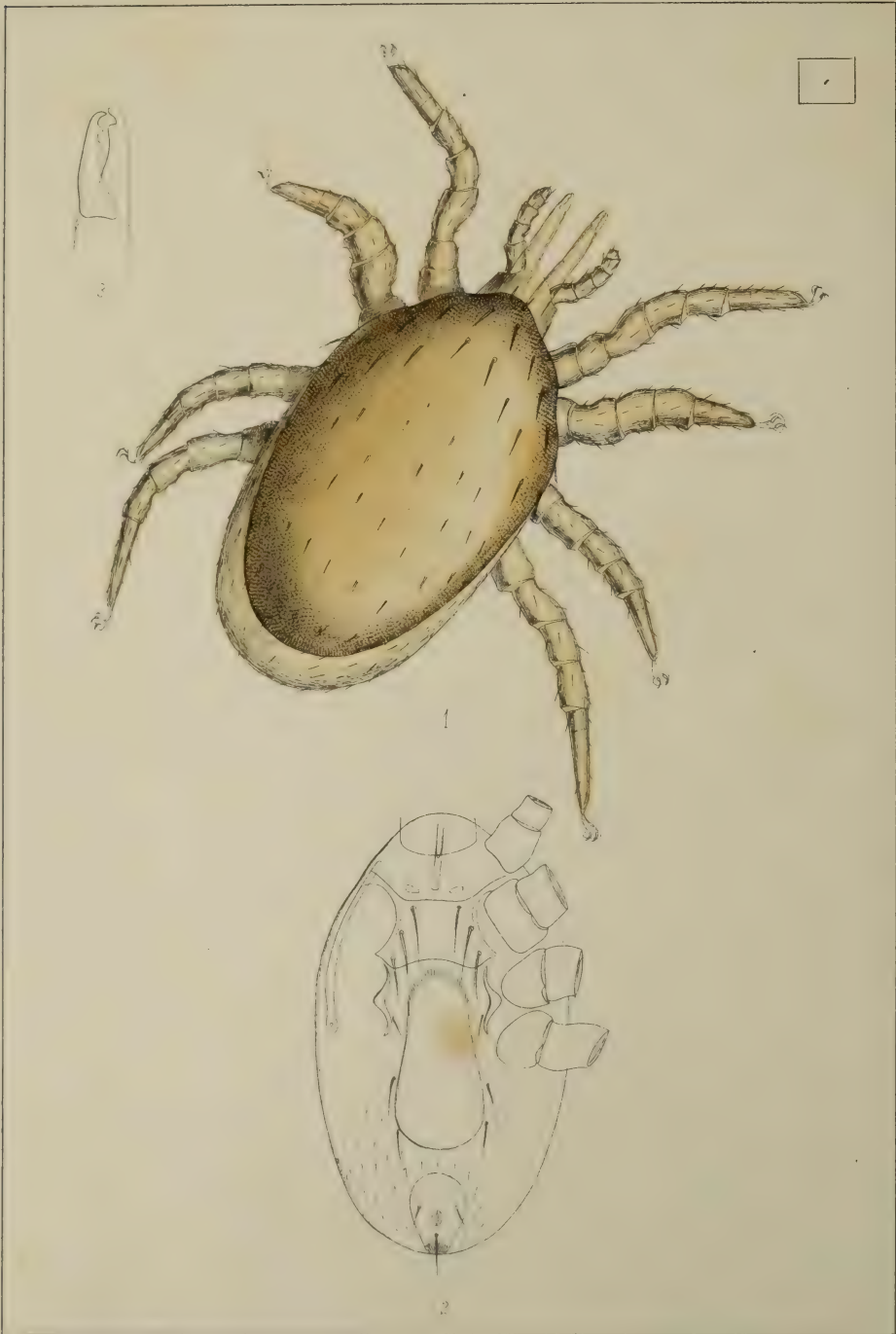
*Expl. tab. 2. animal supinum.*

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*Lalaps* DIS INC DIP



**Laelaps (Iphis) bombicolens (G. Can.) Berl.**

G. Canestrini, Acarof. ital. p. 96 (*Iphis bombicolens*).

*L. terreus, ovalis, corpore pilis simplicibus obsitus, chelis mediocribus, pedibus curte setigeris. Ad 750  $\mu$  long.*

Habitat haud raro super Hymenoptera generis Bombus (*B. terrestris*); Patavii pluries collectus.

Obs. Mas latet.

Fœm. Color corporis pallescens, terreus. Corpus perfecte ovale, posterius rotundatum. Dorsum et venter setis simplicibus curtis, anterioribus tamen paulo validioribus obsitum; margo corporis setulis minoribus vestitus. Epistoma subevanidum, tamen in laminulam anterius rotundatam, marginibus integris desinens. Scutum dorsuale perfecte ovale, marginem hyalinum ceteri abdominis præcipue postice relinquens.

Pedes mediocres, inter sese crassitie subpares, omnes curte setosuli. Mandibulæ chela (3) minori, hyalina, digito fixo unidentato, mobili bidentato.

Scutum ventrale elongatum, posterius rotundatum, anterius fimbriatum, a scutulo anali satis discretum.

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Scutum anale in hac specie, fabricæ peculiaris apparet, quod obcordatum est, antè rotundatum, sed posterius truncatum, et spatium inter anum et marginem scutuli posticum, totum punctis minutis crebre imprimitur fere ut in foemina *Leiagnathi arcuati*.

*Expl. tab. 2.* animal supinum.

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*Xoplophora magna* Nic. D.F.



### **Hoplophora magna Nic.**

Nicolet, Hist. Acar. p. 472, pl. 10, fig. 4.

Haller, Beitrag Zur Kenntniss der Milben. Würtemb. p. 307.

Michael British oribatidæ, p. 556, tab. 50, fig. 1-7, et 51, fig. 1-4.

*H. fuligineo-testacea, opaca; abdomine antice non producto; dermate punctulato, setis stigmaticis simplicibus vel falcatis. Ad 1,350 mill. long.*

Habitat. Nonnulla collegi exempla in muscis ad Vallombrosa prope Florentiam.

Obs. Color testaceo — fuligineus. Derma (5) opacum scabrumque quia punctulis totum impressum. In antici clypeo et ad ventrem abdominis, dermatis punctuli minores et obsoletiores.

Abdomen ovale certe latius quam in *H. anomala*, anterius rotundatum (in dorso) et minime super antici clypeum productum. Anticum carinatum. Setæ stigmaticæ (4) simplices leniter recurvæ vel subfalciformes. Dorsum setis longis 10 per paria dispositis, hirtum.

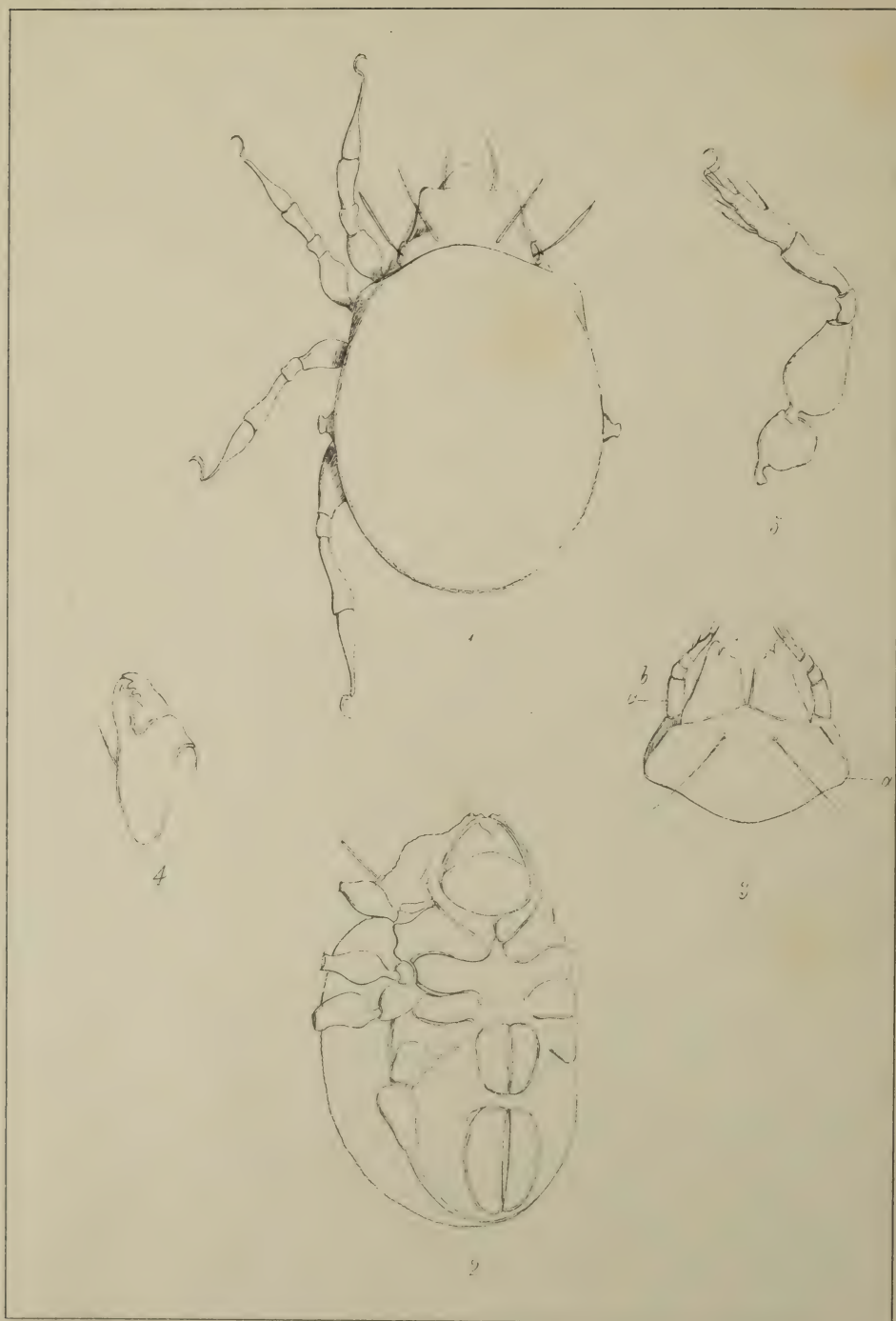
*Expl. tab. 2.* animal supinum (sine pedibus), 3 idem pronum clypeo haud producto.

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GENUS HERMANNIA NICOLET 1855

(Genus Cl. Hermann (\*) *dicatum*)

*Hermannia* (ex p.) Nicolet Hist. nat. acar. env. Paris  
p. 468.

» (ex p.) Michael., British oribatidæ p. 439.

» (ex p.) G. Canestrini, acarof. it. p. 9.

Corpus subovatum. Abdomen apterum, rotundum vel ovatum, supra perconvexum, depressionibus vel foveis minime signatum. Anticum lamellis destitutum. Pedes femoribus basi pedunculatis, segmentis subcylindricis, femoribus crassiusculis subovalibus, ungue unico terminati. Genitalia ano approximata vel vix discreta. Rostrum mandibulis chela utrinque quadridentata; labio (3 *a*) late trapezino, posterius leniter rotundato; maxillis (*b*) apice subbidentibus; palpis (*c*) articulo secundo ceteris longiori et crassiori, articulis omnibus minoribus, postremo conico, gracili. Larvæ et nymphæ nudæ sive non granulis terreis nec exuviis obsitæ.

Differt a genere *Nothrus* et præcipue, a subgenere *Angelia* cuius affinis, abdomine supra convexo nec impresso, larvis nymphisque nudis, ceterum cum *Augeliis* proxime concurrens.

*Expl. tab.* 1. *Hermannia granulata* prona, 2. *eadem* supina; 5. tertii paris *eiusdem* pes.

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(\*) Auctori operis, *Mémoire apterologique*.

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## AVIS

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bureau de cet ouvrage est au présent transporté chez Mons. le Doct. Augusto Napoleone Berlese Prof. dans l'Ecole de Viticulture de *Avellino* (Napoleto-Italie).

Pour tout ce qui regarde l'administration et aussi bien pour le *payement* des fascicules 61-65, et de tous eux qui seront envoyés, messieurs les souscripteurs sont priés de bien vouloir s'adresser donc à M. le Prof. A. N. Berlese (*Avellino*).

Doct. ANTONIO BERLESE

Prof. dans l'Ecole Sup. d'Agriculture de Portici (Napoli)